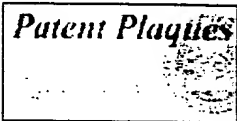




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JP4367707A: NITROGEN OXIDES REMOVAL

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Issued/Filed Dates: Dec. 21, 1992 / June 11, 1991

Application Number: JP1991000166496

IPC Class: B01D 053/34; B01J 020/08; B01J 020/34;

Abstract: **Purpose:** To remove NOx by drying a gas containing NOx in a low concentration of about 50ppm at the highest by using an adsorbent.

Constitution: A gas containing NOx in a low concentration is brought into contact with an activated alumina-based adsorbent containing 0.3-40wt.% of oxide of a least one element selected from sodium, potassium, magnesium, and calcium to adsorb and remove NOx and the adsorbent adsorbing NOx is treated with hot air at 150-600°C to regenerate it. The NOx removal becomes effective when 0.3-10wt.% of an oxide of at least one element selected from iron, copper, cobalt, nickel, and manganese is contained in the adsorbent.

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Foreign References: none

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